



Improving the Water Quality of Green Lake



Clean Water Funds: 2012

Clean Water Grant	\$252,125
Leveraged Funds*	\$66,175
Total Project Budget	\$318,300

* Leveraged Funds include

Targeted Water:

Green Lake - Kandiyohi County

Project Sponsor:

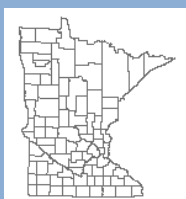
Middle Fork Crow River Watershed District

Grant Period:

January 2012—December 2014

Project Contact:

Chad Anderson
320-796-0888 N/A
chad@mfcrow.org
www.mfcrow.org



C12-14 - Clean Water Assistance

Project Narrative

Green Lake is a popular and regionally significant lake. Monitoring data collected on Green Lake indicates that the lake's water quality is declining. Over recent decades, development in the City of Spicer and around Green Lake has increased dramatically, resulting in much higher percentages of impervious surfaces such as parking lots, driveways and roads. The resulting increase in runoff velocities and volumes require the incorporation of stormwater infrastructure to accommodate water that previously infiltrated soils.



This project provides solutions to the water volume and water quality issues threatening Green

Lake's water quality. Five initiatives will be implemented, including the daylighting of a newly developed riffle and pool lined channel, a raingarden/biofiltration program to accompany the channel, a parking lot retrofit, a biofiltration cell and hydrodynamic separator to enhance a previously installed project and the stabilization of a heavily eroded channel due to stormwater influences.

Proposed Outcomes:

Biofiltration cell and grit chamber installation - Green Lake - Kandiyohi County

Newly developed riffle and pool lined channel - Green Lake - Kandiyohi County

Parking lot retrofit for stormwater quality improvement - Green Lake - Kandiyohi County

Implementation of raingarden/biofiltration program - Green Lake - Kandiyohi County

Stabilized channel to reduce impact of stormwater - Green Lake - Kandiyohi County

Actual Outcomes:

Project in Progress

Stabilization of existing channel leading into the lake

Installation of raingardens in sub-watershed above riffle and pool lined channel

Daylighting of stormwater pipes into a newly developed riffle and pool lined channel

Green Lake

23

Eschmann & Oliver
Environmental, Inc.
1001 1st Avenue S.W.
Minneapolis, MN 55415
Tel: 612.770.2449

Biofiltration cell

Parking lot retrofit to treat first flush

MIDDLE FORK OF THE CROW RIVER WATERSHED LOCATION MAP
MIDDLE FORK CROW RIVER WATERSHED DISTRICT

Legend

- Water
- Land
- Highway
- City
- County
- State
- Country
- Other

Scale: 0 1 2 Miles

Daylighting of stormwater pipes into a newly developed riffle and pool lined channel



Parking lot retrofit to treat first flush

